



## MPSCS Bulletin # 2014-03

Week 10 of the FCC mandated re-tuning of the MPSCS towers is scheduled to start on Monday, January 20<sup>th</sup>, 2014.

This week of tower re-tuning involves the complex Simulcast Systems and three remaining Multicast sites. The Simulcast Systems cover a large geographic areas or populations using multiple towers. The Multicast sites are a single tower and cover a smaller geographic area.

### **Simulcast Systems:**

The Simulcast Systems will remain operational by limiting the number of channels being re-tuned at any time in the Simulcast System. Motorola Technicians will be simultaneously deployed to every tower (Sub-site) within a Simulcast System. Motorola Technicians must simultaneously re-tune and align the same RF channels at each Sub-site to minimize impact to the users and allow for proper simulcast transmissions.

Channels not being re-tuned will remain in operation and provide normal communications. When a channel is disabled for re-tuning, the system bypasses it and calls are automatically assigned to the next available channel. No user intervention is required during this time.

Because the Simulcast Systems will remain in wide area operation, users should not experience a reduction in coverage for portable or mobile subscriber units. An increase in busies may be observed when channels are removed from service for re-tuning.

### **Multicast Sites:**

Re-tuning a Multicast Sites requires the site to be removed from service for approximately 4 hours while being re-tuned to the new frequencies.

When a Multicast Site is removed from service for re-tuning, the portable and mobile subscriber radios will move to an adjacent tower for service. No user intervention is required for mobiles or portable radios. A reduction in the coverage area for portable or mobile subscriber units may be observed while the Multicast Site is out of service for re-tuning.

Control Stations at dispatch centers and other fixed locations locked on to a Multicast Site must have the "Site Lock" disabled when the following towers are being re-tuned:

- 3902 (Caro)
- 1704 (Jackson)
- 6806 (Ionia)

Releasing the Site Lock on the radio allows the Control Station to roam to an adjacent tower and continue with communications. **Failure to release the Site Lock will result in a communications failure for those radios while the tower is disabled for re-tuning.**



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No adjacent Simulcast Systems or Multicast towers will be re-tuned at the same time.

The system will continue to prioritize Talkgroup calls according to established MPSCS standards.

Each Site re-tuning task requires:

- Reprogram and align 800 MHz trunking stations
- Retune RF combining & distribution equipment
- Reprogram configurations within the Zone Controllers
- Testing of the site for technical compliance and operation
- Decommissioning of any Back-to-Back Mutual Aid stations deployed at the towers

The new FCC mandated frequencies were programmed into your re-banded mobile and portable radios as part of the subscriber re-banding process. The old Mutual Aid frequencies were replaced in your radios as part of the re-banding process.

Every effort will be made to shorten the individual time required to re-tune the sites and complete the work effort for the MPSCS towers.

The MPSCS NCC may be contacted at (888) 554-4622 or (517) 333-5050 if you have a question regarding the operation of the MPSCS during this mandated FCC re-tuning project.



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Week 10 Systems/Sites to be re-tuned are:

Day	Date	System	Site	Also Known As
Monday	1/20/14	Lapeer Co.	3801	Lapeer
Monday	1/20/14	Lapeer Co.	3802	North Branch
Monday	1/20/14	Lapeer Co.	3803	Burnside
Monday	1/20/14	Lapeer Co.	3804	Imlay City
Monday	1/20/14	Lapeer Co.	3805	Almont Village
Monday	1/20/14	Lapeer Co.	3806	Metamora
Tuesday	1/21/14	St. Clair Co.	2403	Capac
Tuesday	1/21/14	St. Clair Co.	2404	Richmond
Tuesday	1/21/14	St. Clair Co.	2405	Clay
Tuesday	1/21/14	St. Clair Co.	2406	McMoran
Tuesday	1/21/14	St. Clair Co.	2407	Goodells
Tuesday	1/21/14	St. Clair Co.	2408	St. Clair
Wednesday	1/22/14	Monroe Co.	2802	Dundee
Wednesday	1/22/14	Monroe Co.	2804	Berlin Twp.
Wednesday	1/22/14	Monroe Co.	2805	Monroe Twp.
Wednesday	1/22/14	Monroe Co.	2806	Whiteford
Wednesday	1/22/14	Monroe Co.	2808	Toledo
Thursday	1/23/14	Saginaw Co.	3106	Hemlock
Thursday	1/23/14	Saginaw Co.	3702	Bridgeport
Thursday	1/23/14	Saginaw Co.	3703	St. Charles
Thursday	1/23/14	Saginaw Co.	3704	Courthouse
Thursday	1/23/14	Multicast Site	3902	Caro
Thursday	1/23/14	Multicast Site	1704	Jackson
Friday	1/24/14	Multicast Site	6806	Ionia

This will complete the scheduled re-tuning phase of the MPSCS towers unless delayed by inclement weather or major public safety emergency.